

5 July 2017

Mary Serafy
Managing Director – BRP Development Corp.
767 Third Avenue, 33rd Floor
New York, NY 10017
Via e-mail: mserafy@brpcompanies.com

**Re: Limited Phase II Environmental Site Investigation Report
Archer Towers 2 Development Project
163-05 and 163-25 Archer Avenue
Jamaica, New York
Langan Project No.: 140163801**

Dear Ms. Serafy,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) prepared this report to document the results of the Limited Phase II Environmental Site Investigation (ESI) performed on behalf of BRP Development Corp (BRP) for the two contiguous lots located at 163-05 and 163-25 Archer Avenue (Block 10151, Lot 65 & 75); also referred to as the Subject Property. The Subject Property encompasses approximately 2.07 acres and is improved with a one-story mixed use commercial building and an eight-story parking garage. This investigation included a geophysical survey, and soil and soil vapor sampling. This report describes the sampling methodology, field observations, and analytical results of the subsurface investigation.

BACKGROUND

Based on the findings of Langan's May 2017 Phase I Environmental Site Assessment (ESA) for the Subject Property, several recognized environmental conditions (RECs) were identified in connection with known historical operations conducted at and adjacent to the Subject Property and the known presence (and lack of closure documentation) of a gasoline underground storage tank (UST) that was historically located in the southeast corner of lot 75 (163-25 Archer Avenue). The purpose of this Limited Phase II ESI was to specifically investigate the former tank area on the Subject Property to evaluate if a release of hazardous/petroleum-related substance had occurred to the subsurface.

FIELD INVESTIGATION

Langan conducted the field investigation on 8 June 2017. The field investigation included the completion of a geophysical survey, four soil borings, installation of one soil vapor point, the collection of four grab soil samples (including one duplicate sample), the collection of one soil

vapor sample, and the collection of one outdoor ambient air sample. Soil and soil vapor sampling procedures and results are discussed below. A summary of the soil and soil vapor samples collected for laboratory analysis is presented in Table 1. A summary of the laboratory analytical data for the environmental samples is provided in Tables 2 and 3, and analytical results are shown on Figure 4. All samples were analyzed by a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory.

Geophysical Survey

The geophysical survey was completed by NOVA Geophysical Services (NOVA) of Douglaston, New York under the observation of a Langan field engineer on 8 June 2017. The survey included ground penetrating radar (GPR), electromagnetic (EM) detectors, and comprehensive subsurface utility (CSUL) locators to locate and identify current and former utility lines, anomalies, underground storage tanks (USTs), subsurface structures, and to clear proposed boring locations. A Geophysical Survey Report is provided as Attachment D.

Soil Investigation

Four soil borings (LB01 through and LB04) were installed by AARCO Environmental Services Corp. (AARCO) of Lindenhurst, New York under the supervision of a Langan field engineer. Three of the borings were advanced along the southern exterior of the parking garage and one of the borings was advanced within the basement level of the parking garage. The soil boring locations are presented on Figure 4. The borings were completed using a track-mounted Geoprobe® 54LT direct-push drill rig equipped with a dual-tube sampling system to prevent the collapse of sidewall material as the borings are advanced to collect a core representative of the depth interval advanced. Soil samples were collected throughout each environmental boring into 3-foot to 5-foot macrocore sample barrels with dedicated acetate liners. Soil samples retrieved from each boring were visually classified for soil type, grain size and texture. Each soil sample was screened for total organic vapors using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Soil samples were also evaluated for visual and olfactory indications of environmental impact. Soil boring logs are provided as Attachment A. Groundwater was not encountered or sampled during the investigation to depths of 22 feet below grade surface.

One discrete (grab) soil sample was collected from each boring at depths ranging from 0.5 to 2 feet below grade for laboratory analysis. Soil borings were terminated at depths ranging from 6 to 22 feet below grade surface (bgs). Soil samples were submitted to York Analytical Laboratories (York) under standard chain-of-custody protocol for analysis of Part 375 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs). A summary of the soil samples collected for laboratory

analysis is presented in Table 1 and a summary of soil analytical data is presented in Table 2. Analytical reports and chain-of-custody documentation are provided in Attachment C.

Soil Vapor Investigation

A soil vapor investigation was conducted in accordance with the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. The soil vapor investigation consisted of one soil vapor sample collected into a 6-liter laboratory-supplied Summa canister calibrated for a sampling rate of two hours. The sampling was completed to evaluate the presence of volatile constituents in the subsurface. The soil vapor sample location is shown on Figure 4.

A Geoprobe limited access model 54LT direct-push drill rig was used to create a 2-inch diameter hole to approximately 8 feet bgs. A new, dedicated stainless-steel screen soil vapor implant (3/8-inch in diameter, and approximately 6 inches in length) was threaded to dedicated teflon tubing (1/4-inch diameter) and lowered to the bottom of the hole. Approximately 2.5 feet of sand (Morie #2) filter pack was installed around the screen implant by pouring the material into the annulus. The remaining annular space was backfilled to grade with hydrated bentonite.

A pre-sample tracer gas test was performed using helium gas. The helium gas tracer test is a quality assurance/ quality control (QA/QC) measure to confirm the integrity of the implant seal by evaluating if outdoor air intrusion will impact the soil vapor sample (i.e., that no "short circuiting" has occurred). The helium was introduced into an upside-down 2-gallon container over the surface of the sampling location being tested. The edges of the bucket were sealed to the surface with hydrated bentonite in order to maintain a high concentration of helium within the container. The sample tubing from the implant was extended out of the probe hole through an air-tight fitting installed on the container and into a real-time helium monitoring instrument. With the sample train activated (i.e., drawing air at less than 0.2 liters per minute), the outlet air is monitored using a real-time helium monitoring instrument. A detection of helium would have indicated that the seal was compromised and must be replaced. The soil vapor sample location passed the helium tracer gas test, indicating that the seal was intact.

With the seal confirmed, a PID (which pumps air at approximately 0.2 liters per minute) was attached to the teflon tubing, and a total volume of at least three times that of the tubing and screen setup was purged, taking into account the volume purged during the helium tracer gas test. The purged soil vapor was also monitored with the PID and the value was recorded. After purging was complete, a laboratory-supplied 6-liter Summa canister with a flow controller (with a laboratory-preset flow rate of 0.05 liters per minute) was attached to the teflon tubing. The Summa canister arrived from the laboratory with approximately 30 inches of mercury vacuum. Sampling was started by fully opening the canister valve. The sample was collected over a

period of approximately 117 minutes, with an estimated flow rate of 0.22 liters per minute. When approximately 6 liters of sample had been collected or the canister pressure dropped below approximately 4 inches of mercury, the sampling was stopped by closing the valve.

The soil vapor sample was transported to York by a laboratory-provided courier for analysis of VOCs via EPA Method TO-15. A soil vapor sample point construction log is presented in Attachment A and a soil vapor sampling log is presented in Attachment B.

OBSERVATIONS AND RESULTS

Geophysical Survey

As stated above, a geophysical survey was conducted to locate and identify current and former utility lines, anomalies, USTs, subsurface structures, and to clear proposed boring locations. The GPR survey identified minor anomalies they were consistent with subsurface utility lines; however, anomalies indicative of existing USTs were not identified. The geophysical survey report and associated images and map are provided as Attachment D.

Subsurface Observations

The three exterior borings were advanced to as deep as 22 feet below sidewalk grade. The stratigraphy underlying the Subject Property consists of a surficial layer of historic fill material overlying native fine- to- medium-grained sandy soil with silt and trace amounts of fine gravel. The surficial historic fill extended from ground surface to about 4 feet bgs and is composed of brown, medium to fine sand with some silt, gravel, brick, concrete, and glass. One of the borings (LB-04) contained trace amounts of ash. Groundwater was not encountered or sampled during the investigation to depths of 22 feet below grade surface. Visual evidence of petroleum impacts (i.e., staining, elevated PID readings, etc.) was not identified in any boring advanced as part of this investigation. Soil boring logs are provided as Attachment A.

Soil Sample Analytical Results

Four soil samples were submitted for laboratory analysis including one duplicate sample. Analytical results were compared to Part 375 Unrestricted and Restricted Use Residential Site Cleanup Objectives (SCOs). The soil analytical results are presented in Table 2 and Figure 4.

VOCs

No VOCs were detected above Unrestricted or Restricted-Residential SCOs in soil samples collected.

SVOCs

Five SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene, were detected at concentrations above their Unrestricted Use SCOs in boring LB04 at 1 to 2 feet bgs. Three of the SOVCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene) were also detected above the Restricted-Residential SCOs.

Metals

Six metals, including barium, copper, lead, mercury, selenium, and zinc were detected at concentrations exceeding the Unrestricted Use SCOs in boring LB04 at 1 to 2 feet bgs. Three metals (barium, lead, and mercury) were also detected above the Restricted-Residential SCOs in LB04. Additionally, three of these metals (lead, mercury, and zinc) were detected at concentrations exceeding the Unrestricted Use SCOs in boring LB01 at 0.5 to 1 feet bgs.

PCBs

PCBs were not detected above laboratory reporting limits in soil samples collected.

Soil Vapor Analytical Results

One soil vapor sample was submitted for laboratory analysis. Soil vapor results were compared to the decision matrices established by the NYSDOH Guidance on Soil Vapor Intrusion, October 2006; however, a complete comparison cannot be made to the matrices considering indoor air samples were not collected. The matrices address the compounds 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethylene (TCE), tetrachloroethylene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), carbon tetrachloride, and vinyl chloride. Of these, only PCE was detected at the Subject Property at a concentration of 17 $\mu\text{g}/\text{m}^3$. Several other VOCs were detected in soil vapor samples above background concentrations; however, there are no regulatory standards established for the VOCs. Due to the presence of VOCs in soil vapor and the potential for the migration of VOCs into future site buildings, Langan recommends a vapor barrier be installed under the future site building. Soil vapor sample results are summarized in Table 3 and presented on Figure 4. Analytical reports and chain-of-custody documentation are provided in Attachment C.

FINDINGS AND CONCLUSIONS

Based on the observations and results of this investigation, we conclude the following:

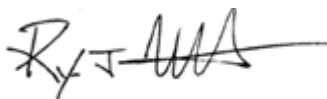
- The geophysical survey identified minor anomalies they were consistent with subsurface utility lines; however, anomalies indicative of existing USTs were not identified during the survey.
- A layer of historic fill composed of varying amounts of sand and gravel, and fragments of brick, concrete, glass, and coal ash (in boring LB04) was identified throughout the Subject Property with a thickness of approximately 4 feet. This fill layer contained SCO exceedances of SVOCs and metals. SVOCs and Metals are common constituents of historical fill material and may not be associated with former use of the Subject Property.
- No visual or olfactory evidence of petroleum impacts (i.e., staining, elevated PID readings, etc.) was identified in any boring advanced as part of the investigation.
- Soil vapor sampling results indicate the presence of PCE, and several other VOCs above the anticipated range of background concentrations. Due to the presence of VOCs in soil vapor and the potential for the migration of VOCs into future site building, Langan recommends a vapor barrier be installed under the future site building.

LIMITATIONS

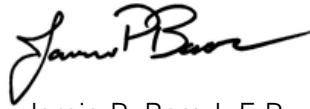
This Limited Phase II ESI report was prepared expressly for the BRP for the property located at 163-25 Archer Avenue in the Bronx, New York and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan. The conclusions and opinions provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions.

Should you have any questions regarding the findings presented in this report, please feel free to call us at 203-784-3069.

Sincerely,
**Langan Engineering, Environmental, Surveying
and Landscape Architecture, D.P.C.**



Ryan Wohlstrom
Senior Project Manager



Jamie P. Barr, L.E.P.
Senior Associate/Vice President

Enclosures: Table 1 – Sample Summary
Table 2 – Soil Sample Analytical Results
Table 3 – Soil Vapor Sample Analytical Results

Figure 1 – Site Location Map
Figure 2 – REC Location Map
Figure 3 – Previous Site Investigations Map
Figure 4 – Soil and Soil Vapor Analytical Results Map

Attachment A – Soil Boring and Soil Vapor Construction Logs
Attachment B – Soil Vapor Sampling Logs
Attachment C – Laboratory Analytical Reports with Chain of Custody Data
Attachment D – Geophysical Survey Report

TABLES

Table 1
Sample Summary
163-05 and 163-25 Archer Avenue
Jamaica, New York
Langan Project No.: 140163801

Sample Name	Sample Depth (ft bgs)	Date	Observations ⁽¹⁾	PID Reading (ppm)	Observed Depth to Groundwater ⁽²⁾	Sample Analyses
Soil Samples						
LB01(0.5-1.5)	0.5 to 1.5	8-Jun-17	Fill	0.0	NO	NYSDEC Part 375 VOCs, NYSDEC Part 375 SVOCs, NYSDEC Part 375 Metals, PCBs
LB02(1-2)	1 to 2	8-Jun-17	Fill	0.0	NO	
LB03(1-2)	1 to 2	8-Jun-17	Fill	0.0	NO	
LB04(1-2)	1 to 2	8-Jun-17	Fill	0.0	NO	
2017.06.05-DUP01 [Parent Sample - LB04(1-2)]	1 to 2	8-Jun-17	Fill	0.0	NO	
Soil Vapor and Ambient Air Samples						
LSV01	8	8-Jun-17	Virgin Sand	0.0	NO	EPA TO15 List
LAA01	--	8-Jun-17	--	0.0	--	EPA TO15 List

Notes:

- 1) Soil types based on field observations.
2) Groundwater was not encountered in any boring location.

Acronyms:

BGS = Below grade surface
GW = Groundwater
NA = Not applicable
NO = Not observed
PID = Photoionization detector
PPM = Parts per million
VOCs = Volatile organic compounds
SVOCs = Semivolatile organic compounds
PCBs = Polychlorinated biphenyls
EPA = United States Environmental Protection Agency

Table 2
Soil Sample Analytical Results
163-05 and 163-25 Archer Avenue
Jamaica, New York
Langan Project No.: 140163801

Sample ID	NYSDEC Part 375-6: Remedial Program Soil Cleanup Objectives		LB01 (0.5-1.5) 17F0405-01 6/8/2017 9:10:00 AM		LB02 (1-2) 17F0405-02 6/8/2017 10:50:00 AM		LB03 (1-2) 17F0405-03 6/8/2017 1:00:00 PM		LB04 (1-2) 17F0405-04 6/8/2017 3:00:00 PM		2017.06.08-DUO01 (LB04) 17F0405-05 6/8/2017 3:00:00 PM	
York ID	Unrestricted Use Objectives	Restricted Residential	Soil		Soil		Soil		Soil		Soil	
Sampling Date			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Client Matrix	Compound											
Volatile Organics, NYSDEC Part 375 List		mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg
Dilution Factor				1		1		1		1		1
2-Butanone		0.12	100	0.0036	J	0.0022	U	0.0052		0.0042		0.00490
Acetone		0.05	100	0.0390	B	0.0160	B	0.0350	B	0.0490	B	0.0470
Semi-Volatiles, NYSDEC Part 375 List		mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg
Dilution Factor				2		2		2		2		2
Acenaphthene		20	100	0.0450	U	0.0448	U	0.043	U	0.234	D	0.154
Acenaphthylene		100	100	0.167	D	0.0448	U	0.043	U	0.192	D	0.186
Anthracene		100	100	0.217	D	0.0448	U	0.043	U	0.383	D	0.316
Benzo(a)anthracene		1	1	0.544	D	0.0708	JD	0.043	U	1.07	D	1.06
Benzo(a)pyrene		1	1	0.969	D	0.160	D	0.043	U	1.87	D	1.93
Benzo(b)fluoranthene		1	1	0.497	D	0.0658	JD	0.043	U	1.01	D	0.968
Benzo(g,h,i)perylene		100	100	0.319	D	0.0448	U	0.043	U	0.445	D	0.469
Benzo(k)fluoranthene		0.8	3.9	0.554	D	0.0815	JD	0.043	U	0.895	D	0.905
Chrysene		1	3.9	0.581	D	0.0822	JD	0.043	U	1.32	D	1.21
Dibenzo(a,h)anthracene		0.33	0.33	0.128	D	0.0448	U	0.043	U	0.221	D	0.202
Dibenzofuran		7	59	0.0450	U	0.0448	U	0.043	U	0.177	D	0.0946
Fluoranthene		100	100	1.220	D	0.159	D	0.043	U	2.330	D	2.030
Fluorene		30	100	0.0495	JD	0.0448	U	0.043	U	0.142	D	0.0885
Indeno(1,2,3-cd)pyrene		0.5	0.5	0.297	D	0.0448	U	0.043	U	0.468	D	0.471
Naphthalene		12	100	0.0450	U	0.0448	U	0.043	U	0.0738	JD	0.0474
Phenanthrene		100	100	0.503	D	0.0636	JD	0.043	U	1.48	D	1.10
Pyrene		100	100	0.831	D	0.109	D	0.043	U	1.86	D	1.78
Metals, NYSDEC Part 375		mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg
Dilution Factor				1		1		1		1		1
Arsenic		13	16	2.320		2.02		1.03	U	6.37		6.48
Barium		350	400	92.2		49.7		23.3		409		352
Beryllium		7.2	72	0.326		0.189		0.123		0.372		0.266
Cadmium		2.5	4.3	0.324	U	0.323	U	0.308	U	1.050		0.951
Chromium		~	~	22.5		13.2		10.2		20.5		20.7
Copper		50	270	31.9		16.1		9.460		71.9		86
Lead		63	400	84.1		49.5		11.1		586		541
Manganese		1600	2000	422		241		215		336		302
Mercury		0.18	0.81	0.208		0.0997		0.0308	U	1.09		0.843
Nickel		30	310	26		15.9		8.24		22.1		21.7
Selenium		3.9	180	3		2.13		2.32		4.64		3.22
Zinc		109	10000	113		59.2		24.2		563		441
Polychlorinated Biphenyls (PCB)		mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg
Dilution Factor				1		1		1		1		1
Total PCBs		0.1	1	0.0177	U	0.0179	U	0.0169	U	0.0188	U	0.0185

Notes:

Soil samples were compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR), Part 375 Unrestricted Use Soil Cleanup Objectives (SCOs), and Part 375 Restricted Residential SCOs.

Only analytezs with detections are shown in table.

~ = Indicates that no regulatory limit has been established for this analyte

Indicates exceedance of the Unrestricted Use Objectives

Indicates exceedance of the Restricted Residential Soil Cleanup Objectives

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 3
Soil Vapor Sample Analytical Results
163-05 and 163-25 Archer Avenue
Jamaica, New York
Langan Project No.: 140163801

Sample ID York ID Sampling Date Client Matrix	LSV01 17F0372-01 6/8/2017 3:00:00 PM Soil Vapor		LAA01 17F0372-02 6/8/2017 3:00:00 PM Outdoor Ambient Air	
Compound	Result	Q	Result	Q
Volatile Organics, EPA TO15 Full List	ug/m3		ug/m3	
Dilution Factor	1.839		1	
1,1,1-Trichloroethane	1	U	0.550	U
1,1-Dichloroethylene	0.730	U	0.400	U
1,2,4-Trimethylbenzene	19	D	0.640	
1,3,5-Trimethylbenzene	5.200	D	0.490	U
1,3-Butadiene	3.400	D	0.660	U
1,3-Dichlorobenzene	11	D	0.600	U
2-Butanone	22	D	1.400	
2-Hexanone	5.100	D	0.820	U
Acetone	170	D	17	
Benzene	2.800	D	0.610	
Carbon disulfide	2.700	D	0.500	
Carbon tetrachloride	0.290	U	0.500	
Chloroform	21	D	0.490	
Chloromethane	0.760	D	1.300	
cis-1,2-Dichloroethylene	0.730	U	0.400	U
Cyclohexane	0.760	D	0.410	
Dichlorodifluoromethane	5.800	D	7.700	
Ethyl acetate	2.300	D	0.860	
Ethyl Benzene	8	D	0.610	
Isopropanol	1.100	D	3.200	
Methyl Methacrylate	2.600	D	0.940	
Methylene chloride	31	D	69	
n-Heptane	3.200	D	0.490	
n-Hexane	48	D	120	
o-Xylene	12	D	0.650	
p- & m- Xylenes	33	D	2	
p-Ethyltoluene	19	D	0.640	
Propylene	18	D	1	
Styrene	16	D	0.430	U
Tetrachloroethylene	17	D	1.300	
Tetrahydrofuran	4.200	D	0.620	
Toluene	19	D	2.300	
Trichloroethylene	0.250	U	0.130	U
Trichlorofluoromethane (Freon 11)	15	D	4.900	
Vinyl Chloride	0.470	U	0.260	U

Notes:

Shading indicates compounds identified by the decision matrices, Matrix 1 and Matrix 2, established by the New York State Department of Health (NYSDOH) Final Guidance on Soil Vapor Intrusion, October 2006

Only analytes with detections are shown in table.

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

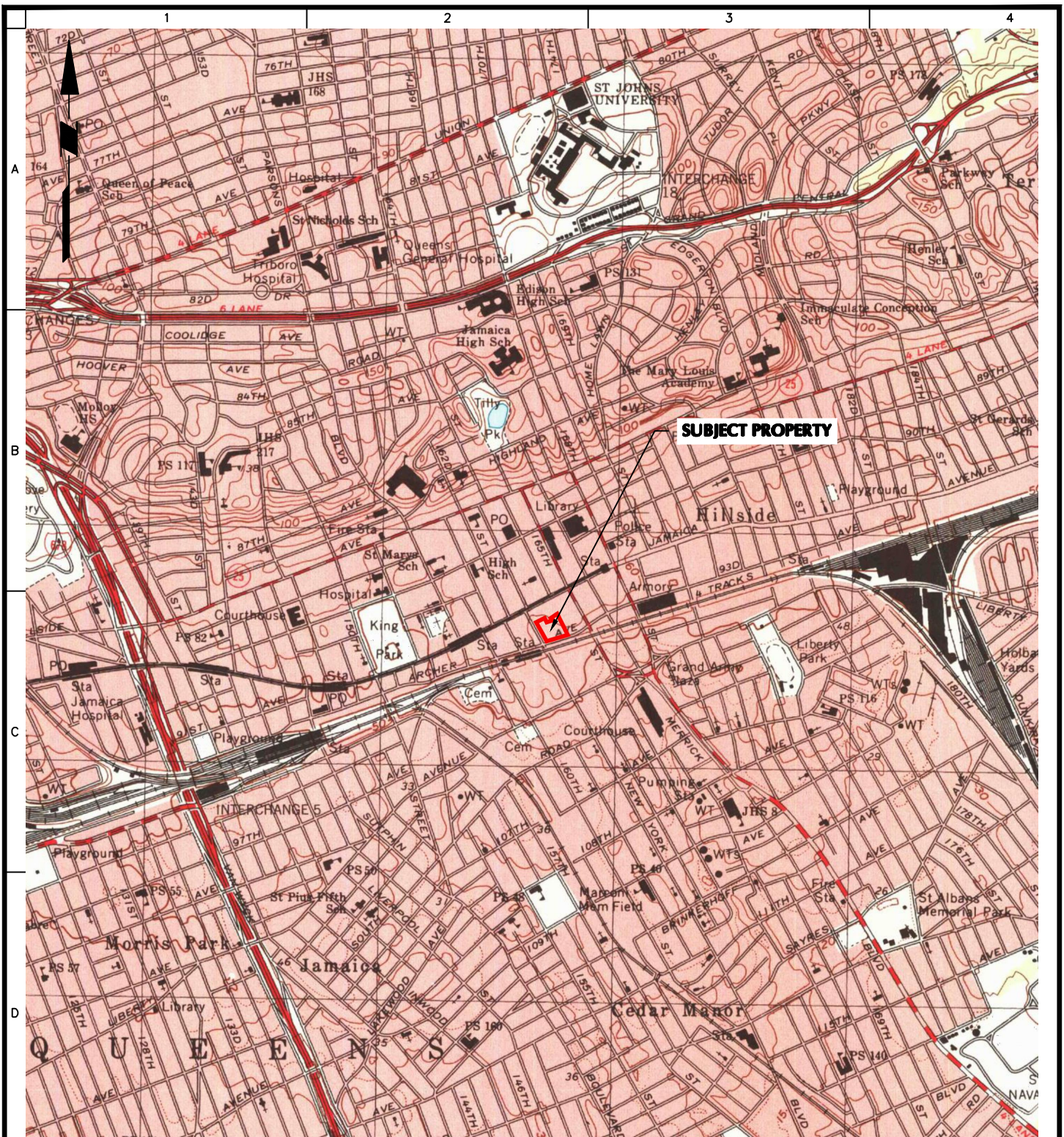
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

FIGURES



REFERENCE: ENVIRONMENTAL DATA RESOURCES, INC.,
INQUIRY NUMBER: 4930866.4, MAY 09, 2017. HISTORICAL
TOPO MAP REPORT. HISTORICAL TOPO MAP 1994.



LANGAN

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Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

**163-05 AND 163-25
ARCHER AVENUE**

JAMAICA

QUEENS

NEW YORK

Drawing Title

**SITE LOCATION
MAP**

Project No.
140163801

Date
JUNE 2017

Scale
1"=2,000'

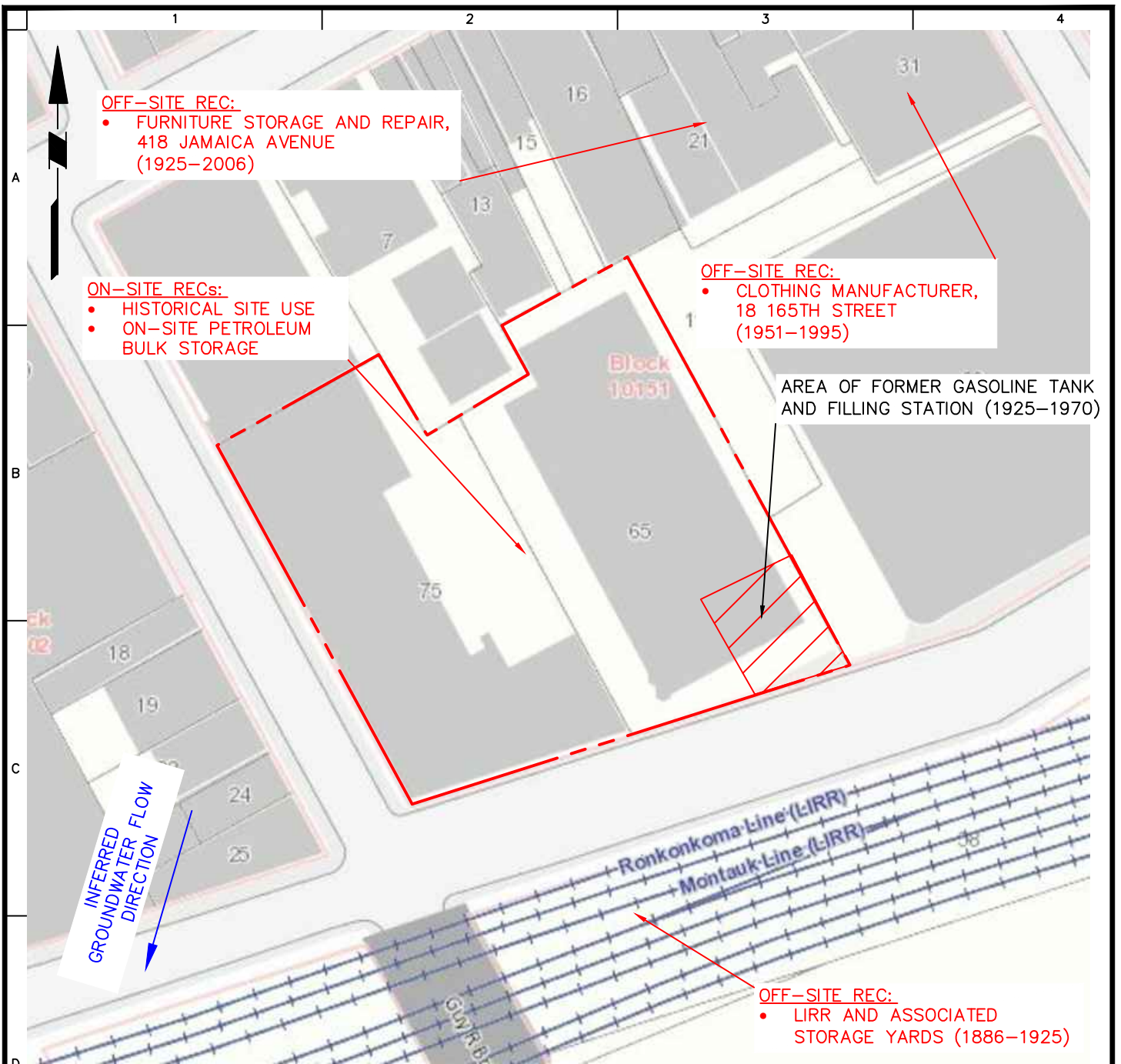
Drawn By JPH
Checked By RJW

Submission Date
23 JUNE 2017

Drawing No.

1

Sheet 1 of 4



LEGEND

----- SUBJECT PROPERTY LINE



REFERENCE: WWW.OASISNYC.NET

LANGAN

21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001

T: 212.479.5400 F: 212.479.5444 www.langan.com
Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

**163-05 AND 163-25
ARCHER AVENUE**

JAMAICA

QUEENS

NEW YORK

Drawing Title

**REC LOCATION
MAP**

Project No.
140163801

Date
JUNE 2017

Scale
1"=100'

Drawn By
JPH

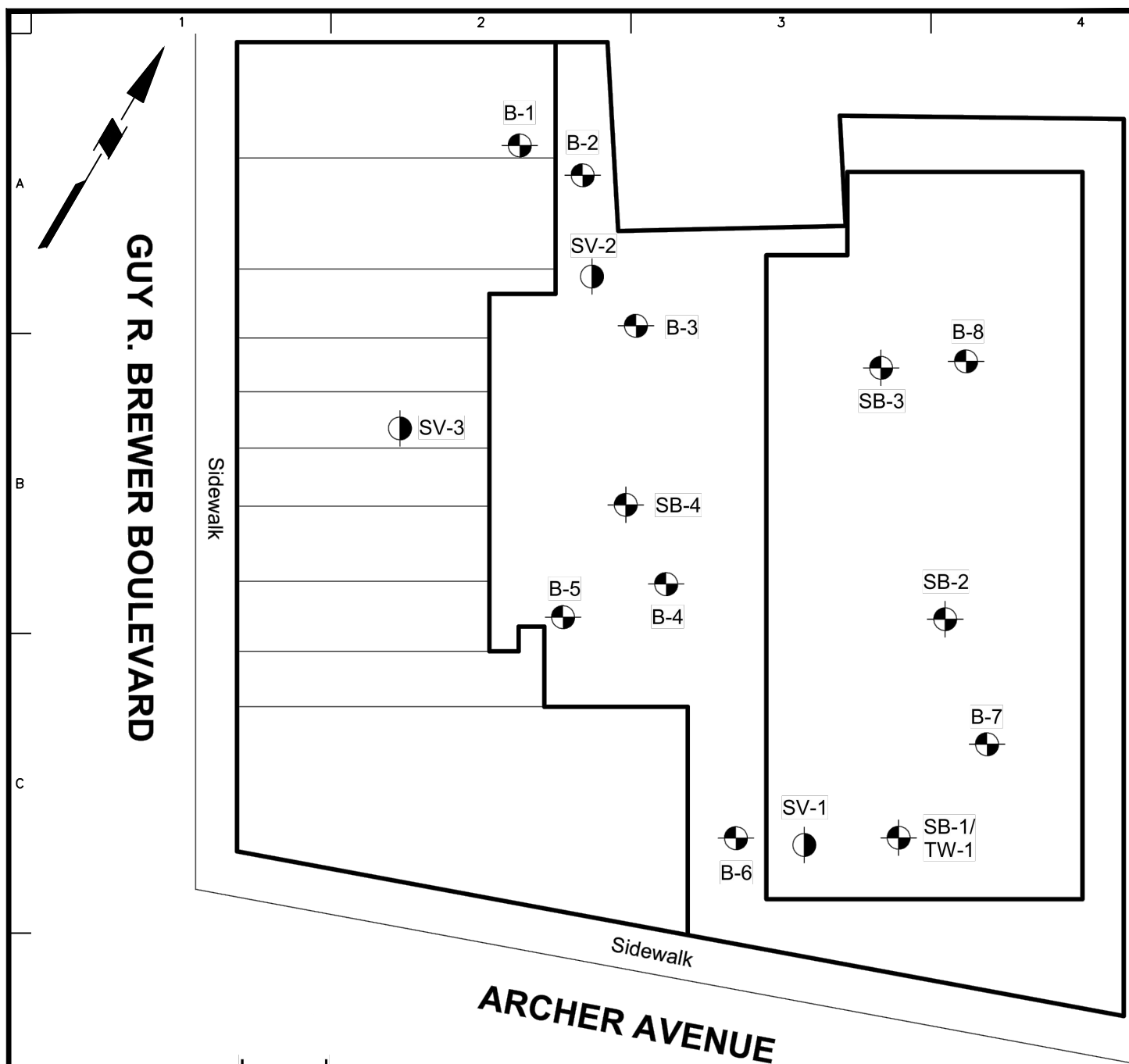
Checked By
RJW

Submission Date
23 JUNE 2017

Drawing No.

2

Sheet 2 of 4



Legend



Soil Boring Location Installed By Holzmacher(5/30/14)



Soil Boring Location Installed By ACT



Soil Vapor Location Installed By ACT

REFERENCE: PHASE II SUBSURFACE INVESTIGATION –
163-05 ARCHER AVENUE JAMAICA, NEW YORK 11433
BLOCK 10151, LOTS 65 AND 75. PREPARED BY
ADVANCED CLEANUP TECHNOLOGIES, INC. DATED 8
SEPTEMBER 2014.

LANGAN

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New York, NY 10001

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Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

**163-05 AND 163-25
ARCHER AVENUE**

JAMAICA

QUEENS

NEW YORK

Drawing Title

**PREVIOUS SITE
INVESTIGATION
MAP**

Project No.

140163801

Date

JUNE 2017

Scale

N.T.S.

Drawn By

JPH

Checked By

RJW

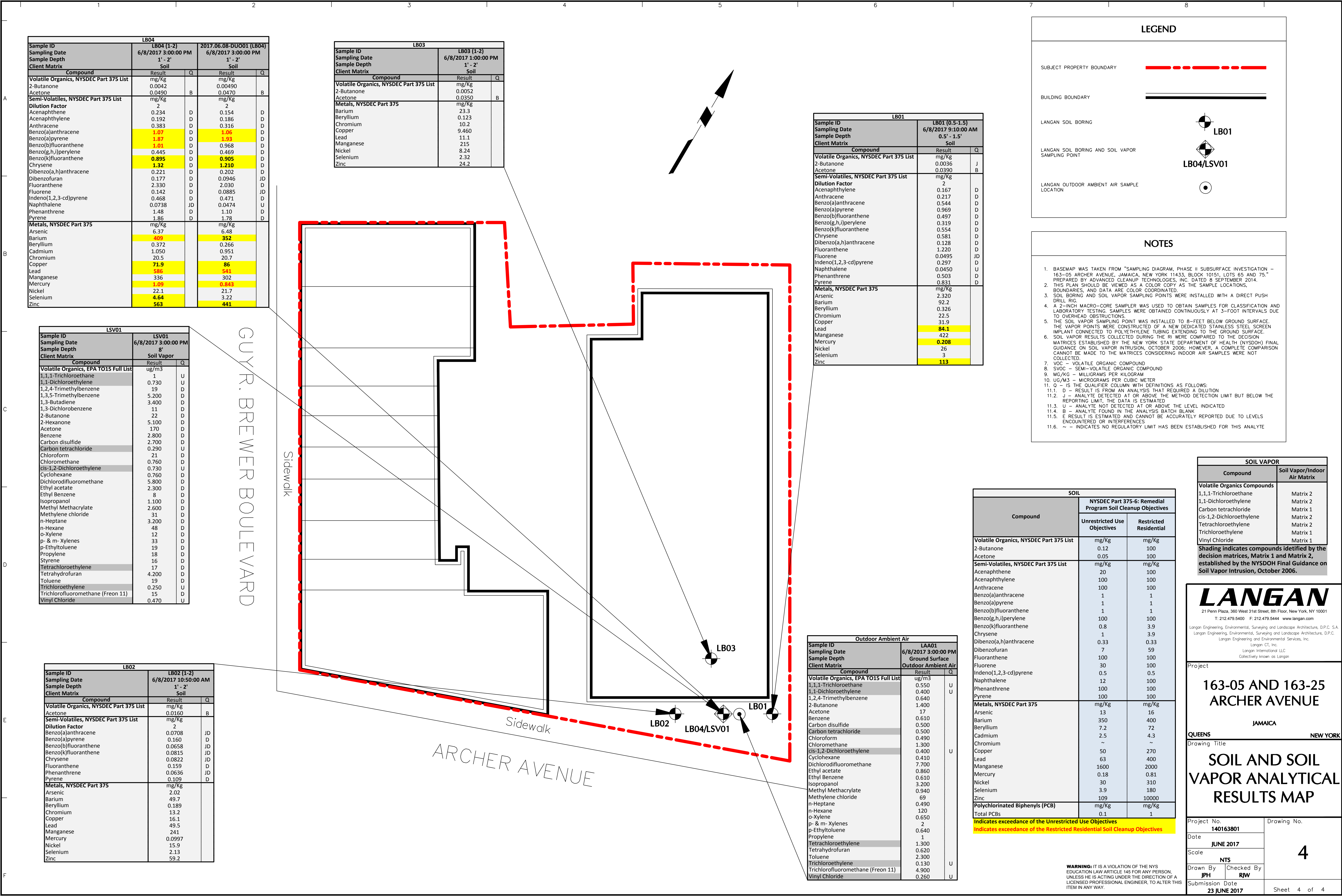
Submission Date

23 JUNE 2017

Drawing No.

3

Sheet 3 of 4



PROJECT <i>Archer Towers</i>		PROJECT NO. <i>140163801</i>	
LOCATION <i>163-05+163525 Archer Ave. Jamaica, NY</i>		ELEVATION AND DATUM <i>N/A</i>	
DRILLING AGENCY <i>AARCO</i>		DATE STARTED <i>6-8-17</i>	DATE FINISHED <i>6-8-17</i>
DRILLING EQUIPMENT <i>Geopigra 54 LT</i>		COMPLETION DEPTH <i>15'</i>	ROCK DEPTH <i>N/A</i>
SIZE AND TYPE OF BIT <i>2" Core Barrel</i>		LOCATION	
CASING <i>N/A</i>	NO. SAMPLES	DIST. <i>5</i>	UNDIST. <i>N/A</i> CORE <i>N/A</i>
CASING HAMMER <i>N/A</i> WEIGHT <i>N/A</i> DROP <i>N/A</i>	WATER LEVEL	FIRST <i>N/A</i>	COMPL. <i>N/A</i> 24 HR <i>N/A</i>
SAMPLER <i>2"x36" Accelate Liner Macrocore</i>		FOREMAN <i>Jim Kelly</i>	
SAMPLER HAMMER <i>Direct Push</i> WEIGHT <i>N/A</i> DROP <i>N/A</i>		LANGAN REP. <i>J. Hall</i>	

PID	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES					REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ENVIRONMENTAL IMPACTSETC.)
			NO. LOC	TYPE	RECOVER.	PENETR. RESIST	BL/6 IN.	
0.0 0.0 0.0 0.0	0'-6" - Concrete Sidewalk 6"-3' - Brown - DK Brown F-C SAND, tr silt, tr f gravel, tr brick, concrete, sm clumps of silt	1 2		S-1	12/36			ENV SAMPLE 6"-1.5' LB01(0.5-1.5) @ 910
0.0 0.0 0.0 0.0	3'-4' - Brown - DK Brown F-C SAND, tr silt, tr gravel tr brick, concrete	3 4		S-2	24/36			
0.0 0.0 0.0	4'-6' - Lt Brown F-M SAND, tr C sand, tr gravel tr silt	5 6		S-3	24/36			
0.0 0.0 0.0 0.0	6'-9' - Lt Brown F-M SAND tr C sand, tr gravel tr silt	7 8		S-4	30/36			
0.0 0.0 0.0 0.0	9'-12' - Lt Brown F-M SAND tr C sand, tr gravel tr silt	9 10 11		S-5	30/36			
0.0 0.0 0.0	12'-15' - Lt Brown F-M SAND tr C sand, tr gravel tr silt	12 13						
0.0 0.0		14						

0.0
0.0

PROJECT Archer Towers				PROJECT NO. 14016380			
LOCATION 163-05 + 163-25 Archer Ave. Jamaica, NY				ELEVATION AND DATUM N/A			
DRILLING AGENCY AARCO				DATE STARTED 6-8-17		DATE FINISHED 6-8-17	
DRILLING EQUIPMENT Geoprobe				COMPLETION DEPTH 22		ROCK DEPTH N/A	
SIZE AND TYPE OF BIT 2" Core Barrel 54LT				LOCATION			
CASING N/A				NO. SAMPLES		DIST. 6	
CASING HAMMER N/A WEIGHT N/A DROP N/A				WATER LEVEL		FIRST N/A	
SAMPLER 2" x 36" Acetate Liner Macrocore + 2" x 60"				FOREMAN Tim Kelly			
SAMPLER HAMMER Direct Push WEIGHT N/A DROP N/A				LANGAN REP. J. Hall			

PID	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES					REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ENVIRONMENTAL IMPACTSETC.)
			NO. LOC	TYPE	RECOVER	PENETR. RESIST	BL/6 IN	
0.0	0-6" - Concrete sidewalk							ENV SAMPLE LB02(1-2) @ 1050
0.0	6"-2'- DK Brown - F-C SAND, tr silt, tr f gravel, tr bricky, concrete	1		S-1	18/36			
0.0	2'-3'- Lt brown F-C SAND, tr f gravel, tr silt	2						
0.0		3						
0.0	3'-6'- Lt brown - F-C SAND, tr f gravel, tr silt	4						
0.0		5		S-2	25/36			
0.0		6						SOIL VAPOR POINT CONSTRUCTION DRILL TO - 8' STAINLESS STEEL SCREEN - 8'-7.5' 1/4" TEFION TUBING - 7.5' - Grade CLEAN #2 SAND - 8'-5.5' HYDRATED BENTONITE SEAL - 5.5' - Grade
0.0	6'-6.5'- Lt brown F-C SAND, tr f gravel, tr silt	7						
0.0	6.5'-9'- Lt brown F-M SAND, tr C sand, tr f gravel, tr silt	8		S-3	30/36			
0.0		9						
0.0	9'-12'- Lt brown - F-C SAND, tr C sand, tr f gravel, tr silt	10						
0.0		11		S-4	30/36			
0.0		12						Use 5' Core Barrel + 5' Macrocore 12'-22'
0.0	12'-16'- Lt brown - F-M SAND, tr C sand, tr f gravel, tr silt	13		S-5	50/60			
0.0		14						

	N	E	P	R	B
0.0	14				
0.0	15				
0.0	16				
0.0	17				
0.0	18				
0.0	19				
0.0	20	S-6	50/60		
0.0	21				
0.0	22				

PROJECT <u>Archer Towers</u>		PROJECT NO. <u>140163801</u>	
LOCATION <u>163-05 + 163-25 Archer Ave, Jamaica, NY</u>		ELEVATION AND DATUM <u>N/A</u>	
DRILLING AGENCY <u>AARCO</u>		DATE STARTED <u>6-8-17</u>	DATE FINISHED <u>6-8-17</u>
DRILLING EQUIPMENT <u>Geoprobe S42T</u>		COMPLETION DEPTH <u>9'</u>	ROCK DEPTH <u>N/A</u>
SIZE AND TYPE OF BIT <u>2" Core Barrel</u>		LOCATION	
CASING <u>N/A</u>		NO. SAMPLES	DIST. <u>3</u>
CASING HAMMER <u>N/A</u> WEIGHT <u>N/A</u> DROP <u>N/A</u>		WATER LEVEL	FIRST <u>N/A</u>
SAMPLER <u>2" 36" Acetate Liner Macrocore</u>		FOREMAN <u>Tim Kelly</u>	UNDIST. <u>N/A</u> CORE <u>N/A</u>
SAMPLER HAMMER <u>Direct Push</u> WEIGHT <u>N/A</u> DROP <u>N/A</u>		COMPL. <u>N/A</u>	24 HR <u>N/A</u>
LANGAN REP. <u>J. Hall</u>			

PID	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES					REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ENVIRONMENTAL IMPACTSETC.)
			NO. LOC	TYPE	RECOVER.	PENETR. RESIST	BLG IN.	
0.0	0-8" - Concrete							ENV SAMPLE 1'-2' LB03(1-2) @ 1300
0.0	8"-9' lt brown F-M SAND, tr C	1		S-1	13/36			
0.0	Sand, tr silt, lt. G. sand	2						
0.0		3						
0.0		4						
0.0		5		S-2	17/36			
0.0		6						
0.0		7						
0.0		8		S-3	24/36			
0.0		9						
0.0		10						
0.0		11						
0.0		12						
0.0		13						
0.0		14						

PROJECT <u>Archer Towers</u>		PROJECT NO. <u>140163801</u>	
LOCATION <u>163-05 + 163-25 Archer Ave, Jamaica, NY</u>		ELEVATION AND DATUM	
DRILLING AGENCY <u>AARLO</u>		DATE STARTED <u>6-8-17</u>	DATE FINISHED <u>6-8-17</u>
DRILLING EQUIPMENT <u>Geoprobe 54LT</u>		COMPLETION DEPTH <u>6'</u>	ROCK DEPTH <u>N/A</u>
SIZE AND TYPE OF BIT <u>2" Core Barrel</u>		LOCATION	
CASING <u>N/A</u>	NO. SAMPLES	DIST. <u>2</u>	UNDIST. <u>N/A</u> CORE <u>N/A</u>
CASING HAMMER <u>N/A</u> WEIGHT <u>N/A</u> DROP <u>N/A</u>	WATER LEVEL	FIRST <u>N/A</u>	COMPL. <u>N/A</u> 24 HR <u>N/A</u>
SAMPLER <u>2" x 36" Acetate Liner Macrocore</u>		FOREMAN <u>Tim Kelly</u>	
SAMPLER HAMMER <u>Diced Push</u> WEIGHT <u>N/A</u> DROP <u>N/A</u>		LANGAN REP. <u>J. Hall</u>	

PID	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES					REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ENVIRONMENTAL IMPACTSETC.)
			NO. LOC	TYPE	RECOVER	PENETR. RESIST	BLG IN.	
0.0	0'-6" Concrete							ENV Sample LB04(1-2) + 2017.06.08-DUP01
0.0	6"-4'- Brown-Grey, F.C SAND, tr f gravel, tr silt, tr brick, concrete, coal ash, glass	1						
0.0		2		S-1	24/36			
0.0								
0.0								
0.0	4'-0'- Lt brown F.C SAND, tr silt, tr f gravel	3						
0.0		4						
0.0		5		S-2	20/36			
0.0		6						
0.0		7						
0.0		8						
0.0		9						
0.0		10						
0.0		11						
0.0		12						
0.0		13						
0.0		14						

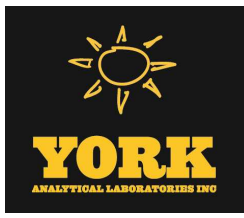
ATTACHEMENT B

Soil Vapor Sampling Logs

SITE :	140163801							
SAMPLERS :	JH							
DATE :	6-8-7							
Sample #	LSV01	LAA01						
Location	LB02	LB02						
Summa Canister ID	22081	23993						
Flow Controller ID	3542	7268						
Sample Depth (b.g.s.)	8	Ambient						
Additional Tubing Added	2	N/A						
Purge Time (Start)	1140	N/A						
Purge Time (Stop)	1200	N/A						
Total Purge Time (min)	20	N/A						
Purge Volume		N/A						
PID Test of Purge	0.3	0.0						
Initial Tracer Gas Results in Sampling Line	0.0%	N/A						
Initial Tracer Gas Results in Shroud	38.0%	N/A						
Pressure Gauge - Before Sampling ("Hg)	28.79	26.18						
Sample Time (Start)	1203	1203						
Sample Time (Stop)	1400	1400						
Total Sample Time (min)	117	117						
Pressure Gauge - after sampling	3.04	1.73						
Sample Volume								
Canister Pressure Went to Ambient Pressure?	NO	NO						
Final Tracer Gas Results in Sampling Line	N/A	N/A						
Final Tracer Gas Results in Sampling Line	N/A	N/A						
Final Tracer Gas Results in Shroud Associated Ambient	N/A	N/A						
Weather 24 Hours Before and During Sampling	Sunny / Overcast 60-70	Sunny / Overcast 60-70						

ATTACHEMENT C

Laboratory Analytical Reports with Chain of Custody Data



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Justin Hall

Report Date: 06/20/2017

Client Project ID: 140163801 163 Archer Street Jamaica Queen NY

York Project (SDG) No.: 17F0405

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 06/20/2017
Client Project ID: 140163801 163 Archer Street Jamaica Queen NY
York Project (SDG) No.: 17F0405

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Justin Hall

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 09, 2017 and listed below. The project was identified as your project: **140163801 163 Archer Street Jamaica Queen NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
17F0405-01	LB01 (0.5-1.5)	Soil	06/08/2017	06/09/2017
17F0405-02	LB02 (1-2)	Soil	06/08/2017	06/09/2017
17F0405-03	LB03 (1-2)	Soil	06/08/2017	06/09/2017
17F0405-04	LB04 (1-2)	Soil	06/08/2017	06/09/2017
17F0405-05	2017.06.08-DUO01	Soil	06/08/2017	06/09/2017
17F0405-06	2017.06.08-TB01	Water	06/08/2017	06/09/2017

General Notes for York Project (SDG) No.: 17F0405

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/20/2017





Sample Information

Client Sample ID: LB01 (0.5-1.5)

York Sample ID: 17F0405-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 9:10 am

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	51	100	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
78-93-3	2-Butanone	3.6	J	ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
67-64-1	Acetone	39	CCV-E , B	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
71-43-2	Benzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS



Sample Information

Client Sample ID: LB01 (0.5-1.5)

York Sample ID: 17F0405-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 9:10 am

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
108-88-3	Toluene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 16:58	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.6	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 07:30	06/14/2017 16:58	SS

Surrogate Recoveries		Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	77-125
2037-26-5	Surrogate: Toluene-d8	99.2 %	85-120
460-00-4	Surrogate: p-Bromofluorobenzene	88.6 %	76-130

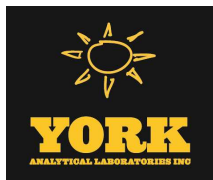
Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
83-32-9	Acenaphthene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
208-96-8	Acenaphthylene	167		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR



Sample Information

Client Sample ID: LB01 (0.5-1.5)

York Sample ID: 17F0405-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 9:10 am

06/09/2017

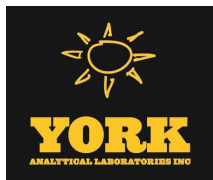
Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	217		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
56-55-3	Benzo(a)anthracene	544		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
50-32-8	Benzo(a)pyrene	969	CCV-E	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
205-99-2	Benzo(b)fluoranthene	497		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
191-24-2	Benzo(g,h,i)perylene	319		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
207-08-9	Benzo(k)fluoranthene	554		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
218-01-9	Chrysene	581		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
53-70-3	Dibenzo(a,h)anthracene	128		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
206-44-0	Fluoranthene	1220		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
86-73-7	Fluorene	49.5	J	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
193-39-5	Indeno(1,2,3-cd)pyrene	297		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
91-20-3	Naphthalene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
85-01-8	Phenanthrene	503		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
108-95-2	Phenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
129-00-0	Pyrene	831		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 20:42	SR
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	54.7 %	20-108								
4165-62-2	Surrogate: Phenol-d5	62.8 %	23-114								
4165-60-0	Surrogate: Nitrobenzene-d5	65.9 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	69.8 %	21-113								
118-79-6	Surrogate: 2,4,6-Tribromophenol	51.6 %	19-110								
1718-51-0	Surrogate: Terphenyl-d14	49.4 %	24-116								



Sample Information

Client Sample ID: LB01 (0.5-1.5)

York Sample ID: 17F0405-01

York Project (SDG) No.

Client Project ID

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06/09/2017

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:06	SA
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:06	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:06	SA
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:06	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:06	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:06	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:06	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	06/14/2017 06:27	06/14/2017 18:06	SA
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	86.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	113 %	30-140							

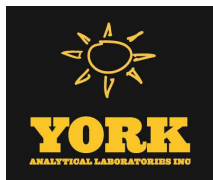
Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	2.32		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-39-3	Barium	92.2		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-41-7	Beryllium	0.326		mg/kg dry	0.108	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.324	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-47-3	Chromium	22.5		mg/kg dry	0.540	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-50-8	Copper	31.9		mg/kg dry	0.540	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7439-92-1	Lead	84.1		mg/kg dry	0.324	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7439-96-5	Manganese	422		mg/kg dry	0.540	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-02-0	Nickel	26.0		mg/kg dry	0.540	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML



Sample Information

Client Sample ID: LB01 (0.5-1.5)

York Sample ID: 17F0405-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 9:10 am

06/09/2017

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	3.00		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-22-4	Silver	ND		mg/kg dry	0.540	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML
7440-66-6	Zinc	113		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:45	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.208		mg/kg dry	0.0324	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	06/15/2017 14:51	06/15/2017 19:17	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.6		%	0.100	1	SM 2540G Certifications: CTDOH	06/15/2017 16:00	06/15/2017 18:09	TAJ

Sample Information

Client Sample ID: LB02 (1-2)

York Sample ID: 17F0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 10:50 am

06/09/2017

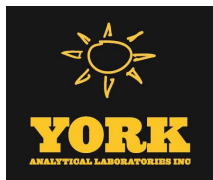
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS



Sample Information

Client Sample ID: LB02 (1-2)

York Sample ID: 17F0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 10:50 am

06/09/2017

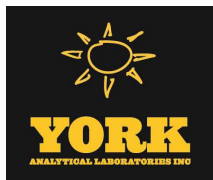
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	43	87	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
67-64-1	Acetone	16	CCV-E , B	ug/kg dry	4.3	8.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
71-43-2	Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
67-66-3	Chloroform	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.3	8.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.2	8.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.3	8.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS



Sample Information

Client Sample ID: LB02 (1-2)

York Sample ID: 17F0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 10:50 am

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
108-88-3	Toluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 17:30	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 07:30	06/14/2017 17:30	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %			77-125						
2037-26-5	Surrogate: Toluene-d8	99.5 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	90.6 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
83-32-9	Acenaphthene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
120-12-7	Anthracene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
56-55-3	Benzo(a)anthracene	70.8	J	ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
50-32-8	Benzo(a)pyrene	160	CCV-E	ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
205-99-2	Benzo(b)fluoranthene	65.8	J	ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR



Sample Information

Client Sample ID: LB02 (1-2)

York Sample ID: 17F0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 10:50 am

06/09/2017

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
207-08-9	Benzo(k)fluoranthene	81.5	J	ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
218-01-9	Chrysene	82.2	J	ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
206-44-0	Fluoranthene	159		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
86-73-7	Fluorene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
91-20-3	Naphthalene	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
85-01-8	Phenanthrene	63.6	J	ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
108-95-2	Phenol	ND		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
129-00-0	Pyrene	109		ug/kg dry	44.8	89.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 21:30	SR
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	51.7 %	20-108								
4165-62-2	Surrogate: Phenol-d5	59.0 %	23-114								
4165-60-0	Surrogate: Nitrobenzene-d5	62.0 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	64.8 %	21-113								
118-79-6	Surrogate: 2,4,6-Tribromophenol	72.8 %	19-110								
1718-51-0	Surrogate: Terphenyl-d14	47.0 %	24-116								

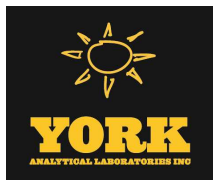
Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:22	SA



Sample Information

Client Sample ID: LB02 (1-2)

York Sample ID: 17F0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 10:50 am

06/09/2017

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:22	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:22	SA
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:22	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:22	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:22	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:22	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications:	06/14/2017 06:27	06/14/2017 18:22	SA
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	91.0 %		30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	114 %		30-140						

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	2.02		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7440-39-3	Barium	49.7		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7440-41-7	Beryllium	0.189		mg/kg dry	0.108	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.323	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7440-47-3	Chromium	13.2		mg/kg dry	0.538	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7440-50-8	Copper	16.1		mg/kg dry	0.538	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7439-92-1	Lead	49.5		mg/kg dry	0.323	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7439-96-5	Manganese	241		mg/kg dry	0.538	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7440-02-0	Nickel	15.9		mg/kg dry	0.538	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7782-49-2	Selenium	2.13		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML



Sample Information

Client Sample ID: LB02 (1-2)

York Sample ID: 17F0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 10:50 am

06/09/2017

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.538	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML
7440-66-6	Zinc	59.2		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:50	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0997		mg/kg dry	0.0323	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	06/15/2017 14:51	06/15/2017 19:26	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.0		%	0.100	1	SM 2540G Certifications: CTDOH	06/15/2017 16:00	06/15/2017 18:09	TAJ

Sample Information

Client Sample ID: LB03 (1-2)

York Sample ID: 17F0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 1:00 pm

06/09/2017

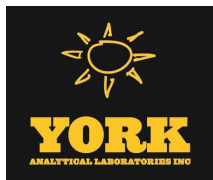
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS



Sample Information

Client Sample ID: LB03 (1-2)

York Sample ID: 17F0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 1:00 pm

06/09/2017

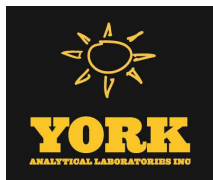
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	42	84	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
78-93-3	2-Butanone	5.2		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
67-64-1	Acetone	35	CCV-E , B	ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
71-43-2	Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
67-66-3	Chloroform	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.1	8.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS



Sample Information

Client Sample ID: LB03 (1-2)

York Sample ID: 17F0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 1:00 pm

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
108-88-3	Toluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:02	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 07:30	06/14/2017 18:02	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	77-125								
2037-26-5	Surrogate: Toluene-d8	97.0 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	89.0 %	76-130								

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
83-32-9	Acenaphthene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
120-12-7	Anthracene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR



Sample Information

Client Sample ID: LB03 (1-2)

York Sample ID: 17F0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 1:00 pm

06/09/2017

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
206-44-0	Fluoranthene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
86-73-7	Fluorene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
91-20-3	Naphthalene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
85-01-8	Phenanthrene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
108-95-2	Phenol	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR
129-00-0	Pyrene	ND		ug/kg dry	43.0	85.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 18:17	SR

Surrogate Recoveries		Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	54.0 %	20-108
4165-62-2	Surrogate: Phenol-d5	64.1 %	23-114
4165-60-0	Surrogate: Nitrobenzene-d5	67.6 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	68.8 %	21-113
118-79-6	Surrogate: 2,4,6-Tribromophenol	20.6 %	19-110
1718-51-0	Surrogate: Terphenyl-d14	52.0 %	24-116

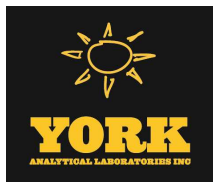
Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:39	SA
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:39	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:39	SA



Sample Information

Client Sample ID: LB03 (1-2)

York Sample ID: 17F0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 1:00 pm

06/09/2017

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:39	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:39	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:39	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:39	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications:	06/14/2017 06:27	06/14/2017 18:39	SA
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	94.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	111 %	30-140							

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-39-3	Barium	23.3		mg/kg dry	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-41-7	Beryllium	0.123		mg/kg dry	0.103	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.308	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-47-3	Chromium	10.2		mg/kg dry	0.514	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-50-8	Copper	9.46		mg/kg dry	0.514	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7439-92-1	Lead	11.1		mg/kg dry	0.308	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7439-96-5	Manganese	215		mg/kg dry	0.514	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-02-0	Nickel	8.24		mg/kg dry	0.514	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7782-49-2	Selenium	2.32		mg/kg dry	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-22-4	Silver	ND		mg/kg dry	0.514	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML
7440-66-6	Zinc	24.2		mg/kg dry	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 05:56	KML



Sample Information

Client Sample ID: LB03 (1-2)

York Sample ID: 17F0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 1:00 pm

06/09/2017

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0308	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	06/15/2017 14:51	06/15/2017 19:35	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.3		%	0.100	1	SM 2540G Certifications: CTDOH	06/15/2017 16:00	06/15/2017 18:09	TAJ

Sample Information

Client Sample ID: LB04 (1-2)

York Sample ID: 17F0405-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 3:00 pm

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS



Sample Information

Client Sample ID: LB04 (1-2)

York Sample ID: 17F0405-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 3:00 pm

06/09/2017

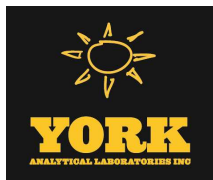
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg dry	42	85	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
78-93-3	2-Butanone	4.2		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
67-64-1	Acetone	49	CCV-E , B	ug/kg dry	4.2	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
71-43-2	Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
67-66-3	Chloroform	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.2	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
91-20-3	Naphthalene	17		ug/kg dry	2.1	8.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.2	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
108-88-3	Toluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS



Sample Information

Client Sample ID: LB04 (1-2)

York Sample ID: 17F0405-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 3:00 pm

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 18:34	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 07:30	06/14/2017 18:34	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %									
2037-26-5	Surrogate: Toluene-d8	98.2 %									
460-00-4	Surrogate: p-Bromofluorobenzene	89.7 %									

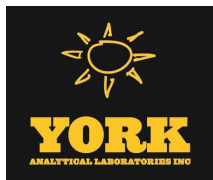
Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
83-32-9	Acenaphthene	234		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
208-96-8	Acenaphthylene	192		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
120-12-7	Anthracene	383		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
56-55-3	Benzo(a)anthracene	1070		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
50-32-8	Benzo(a)pyrene	1870	CCV-E	ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
205-99-2	Benzo(b)fluoranthene	1010		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
191-24-2	Benzo(g,h,i)perylene	445		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
207-08-9	Benzo(k)fluoranthene	895		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
218-01-9	Chrysene	1320		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
53-70-3	Dibenzo(a,h)anthracene	221		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
132-64-9	Dibenzofuran	177		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
206-44-0	Fluoranthene	2330		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
86-73-7	Fluorene	142		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR



Sample Information

Client Sample ID: LB04 (1-2)

York Sample ID: 17F0405-04

York Project (SDG) No.

Client Project ID

Matrix

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140163801 163 Archer Street Jamaica Queen NY

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June 8, 2017 3:00 pm

06/09/2017

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
193-39-5	Indeno(1,2,3-cd)pyrene	468		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
91-20-3	Naphthalene	73.8	J	ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
85-01-8	Phenanthrene	1480		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
108-95-2	Phenol	ND		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
129-00-0	Pyrene	1860		ug/kg dry	47.7	95.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/15/2017 22:18	SR
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	48.0 %	20-108								
4165-62-2	Surrogate: Phenol-d5	53.4 %	23-114								
4165-60-0	Surrogate: Nitrobenzene-d5	57.8 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	55.2 %	21-113								
118-79-6	Surrogate: 2,4,6-Tribromophenol	50.5 %	19-110								
1718-51-0	Surrogate: Terphenyl-d14	36.3 %	24-116								

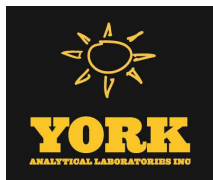
Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:55	SA
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:55	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:55	SA
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:55	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:55	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:55	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 18:55	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0188	1	EPA 8082A Certifications:	06/14/2017 06:27	06/14/2017 18:55	SA



Sample Information

Client Sample ID: LB04 (1-2)

York Sample ID: 17F0405-04

York Project (SDG) No.

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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	91.5 %			30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	111 %			30-140					

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	6.37		mg/kg dry	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-39-3	Barium	409		mg/kg dry	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-41-7	Beryllium	0.372		mg/kg dry	0.114	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-43-9	Cadmium	1.05		mg/kg dry	0.342	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-47-3	Chromium	20.5		mg/kg dry	0.571	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-50-8	Copper	71.9		mg/kg dry	0.571	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7439-92-1	Lead	586		mg/kg dry	0.342	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7439-96-5	Manganese	336		mg/kg dry	0.571	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-02-0	Nickel	22.1		mg/kg dry	0.571	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7782-49-2	Selenium	4.64		mg/kg dry	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-22-4	Silver	ND		mg/kg dry	0.571	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML
7440-66-6	Zinc	563		mg/kg dry	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:01	KML

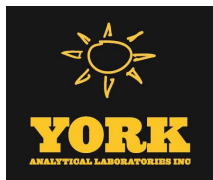
Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	1.09		mg/kg dry	0.0342	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	06/15/2017 14:51	06/15/2017 19:43	SY



Sample Information

Client Sample ID: LB04 (1-2)

York Sample ID: 17F0405-04

York Project (SDG) No.

Client Project ID

Matrix

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Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.6		%	0.100	1	SM 2540G Certifications: CTDOH	06/15/2017 10:22	06/15/2017 15:50	TAJ

Sample Information

Client Sample ID: 2017.06.08-DUO01

York Sample ID: 17F0405-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 3:00 pm

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	40	81	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
78-93-3	2-Butanone	4.9		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
67-64-1	Acetone	47	CCV-E , B	ug/kg dry	4.0	8.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
71-43-2	Benzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS



Sample Information

Client Sample ID: 2017.06.08-DU001

York Sample ID: 17F0405-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

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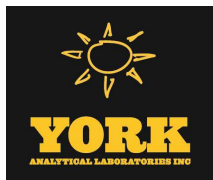
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
67-66-3	Chloroform	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.0	8.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.0	8.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.0	8.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
108-88-3	Toluene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.0	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2017 07:30	06/14/2017 19:06	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 07:30	06/14/2017 19:06	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	77-125								
2037-26-5	Surrogate: Toluene-d8	98.4 %	85-120								



Sample Information

Client Sample ID: 2017.06.08-DUO01

York Sample ID: 17F0405-05

York Project (SDG) No.

Client Project ID

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17F0405

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Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: p-Bromofluorobenzene	91.5 %			76-130						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
83-32-9	Acenaphthene	154		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
208-96-8	Acenaphthylene	186		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
120-12-7	Anthracene	316		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
56-55-3	Benzo(a)anthracene	1060		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
50-32-8	Benzo(a)pyrene	1930	CCV-E	ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
205-99-2	Benzo(b)fluoranthene	968		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
191-24-2	Benzo(g,h,i)perylene	469		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
207-08-9	Benzo(k)fluoranthene	905		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
218-01-9	Chrysene	1210		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
53-70-3	Dibenzo(a,h)anthracene	202		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
132-64-9	Dibenzofuran	94.6	J	ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
206-44-0	Fluoranthene	2030		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
86-73-7	Fluorene	88.5	J	ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
193-39-5	Indeno(1,2,3-cd)pyrene	471		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
91-20-3	Naphthalene	ND		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR



Sample Information

Client Sample ID: 2017.06.08-DUO01

York Sample ID: 17F0405-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 3:00 pm

06/09/2017

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	1100		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
108-95-2	Phenol	ND		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
129-00-0	Pyrene	1780		ug/kg dry	47.4	94.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/15/2017 08:03	06/16/2017 12:56	SR
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	50.1 %	20-108								
4165-62-2	Surrogate: Phenol-d5	58.8 %	23-114								
4165-60-0	Surrogate: Nitrobenzene-d5	60.3 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	60.4 %	21-113								
118-79-6	Surrogate: 2,4,6-Tribromophenol	68.0 %	19-110								
1718-51-0	Surrogate: Terphenyl-d14	46.7 %	24-116								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 19:11	SA
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 19:11	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 19:11	SA
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 19:11	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 19:11	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 19:11	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/14/2017 06:27	06/14/2017 19:11	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications:	06/14/2017 06:27	06/14/2017 19:11	SA
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	82.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	108 %	30-140							



Sample Information

Client Sample ID: 2017.06.08-DUO01

York Sample ID: 17F0405-05

York Project (SDG) No.

Client Project ID

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Collection Date/Time

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140163801 163 Archer Street Jamaica Queen NY

Soil

June 8, 2017 3:00 pm

06/09/2017

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	6.48		mg/kg dry	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-39-3	Barium	352		mg/kg dry	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-41-7	Beryllium	0.266		mg/kg dry	0.113	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-43-9	Cadmium	0.951		mg/kg dry	0.340	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-47-3	Chromium	20.7		mg/kg dry	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-50-8	Copper	86.0		mg/kg dry	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7439-92-1	Lead	541		mg/kg dry	0.340	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7439-96-5	Manganese	302		mg/kg dry	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-02-0	Nickel	21.7		mg/kg dry	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7782-49-2	Selenium	3.22		mg/kg dry	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-22-4	Silver	ND		mg/kg dry	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML
7440-66-6	Zinc	441		mg/kg dry	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/19/2017 13:37	06/20/2017 06:09	KML

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.843		mg/kg dry	0.0340	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	06/15/2017 14:51	06/15/2017 19:56	SY

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.1		%	0.100	1	SM 2540G Certifications: CTDOH	06/15/2017 10:22	06/15/2017 15:50	TAJ



Sample Information

Client Sample ID: 2017.06.08-TB01

York Sample ID: 17F0405-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Water

June 8, 2017 3:00 pm

06/09/2017

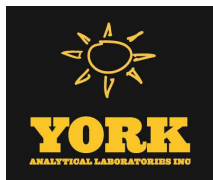
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
67-64-1	Acetone	1.7	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR



Sample Information

Client Sample ID: 2017.06.08-TB01

York Sample ID: 17F0405-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0405

140163801 163 Archer Street Jamaica Queen NY

Water

June 8, 2017 3:00 pm

06/09/2017

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	06/14/2017 17:38	06/14/2017 23:22	SR
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	06/14/2017 17:38	06/14/2017 23:22	SR
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	06/14/2017 17:38	06/14/2017 23:22	SR
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %	69-130								
2037-26-5	Surrogate: Toluene-d8	100 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	106 %	79-122								



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17F0405-01	LB01 (0.5-1.5)	40mL Vial with Stir Bar-Cool 4° C
17F0405-02	LB02 (1-2)	40mL Vial with Stir Bar-Cool 4° C
17F0405-03	LB03 (1-2)	40mL Vial with Stir Bar-Cool 4° C
17F0405-04	LB04 (1-2)	40mL Vial with Stir Bar-Cool 4° C
17F0405-05	2017.06.08-DUO01	40mL Vial with Stir Bar-Cool 4° C
17F0405-06	2017.06.08-TB01	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

S-08	The recovery of this surrogate was outside of QC limits.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.



2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
clientservices@yorklab.com
www.yorklab.com



Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:		Company:		Company:		140163801		RUSH - Next Day	
Address:		Address:		Address:		163 Archer Street Jamaica Queen NY		RUSH - Two Day	
Phone:		Phone:		Phone:				RUSH - Three Day	
Contact:		Contact:		Contact:				RUSH - Four Day	
E-mail:		E-mail:		E-mail:				Standard (5-7 Day)	
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.		Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.	
Samples Collected by: (print your name above and sign below) Justin Hall 		S - soil / solid		New York		Summary Report		Compared to the following Regulation(s): (please fill in)	
		GW - groundwater		New Jersey		QA Report		NYSDEL Part 375	
		DW - drinking water		Connecticut		NY ASP A Package			
		WW - wastewater		Pennsylvania		NY ASP B Package			
		O - Oil / Other		Other					
Sample Identification		Sample Matrix		Date/Time Sampled		Analysis Requested		Container Description	
LB01 (0.5-1.5)		S		6-8-17/0910		Part 375 VOC, Part 375 SVOC, Part 375 PCB, Part 375 Metals		1-8oz, 1-Terminal	
LB02 (1-2)		↓		1050		↓		↓	
LB03 (1-2)		↓		1300		↓		↓	
LB04 (1-2)		↓		1500		↓		↓	
2017.06.08-DUP01		↓		N/A		↓		↓	
2017.06.08-TB01		Trip Blank		N/A		↓		2-10A HCL	
Comments: Please have RLs meet Part 375 criteria									
Forward results to B. Wohlstrom									
Samples Relinquished by / Company		Date/Time		Samples Received by / Company		Date/Time		Special Instruction	
								Field Filtered Lab to Filter	
Samples Relinquished by / Company		Date/Time		Samples Received by / Company		Date/Time		Date/Time	
								6/9/17 09	
Samples Relinquished by / Company		Date/Time		Samples Received by / Company		Date/Time		Temp. Received at Lab	
								3.4	
Samples Relinquished by / Company		Date/Time		Samples Received by / Company		Date/Time		Degrees C	

ATTACHEMENT D

Geophysical Survey Report

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Site

**163-05 Archer Avenue
Jamaica, New York 11433**

NOVA PROJECT NUMBER

17-0222

DATED

June 15, 2017

PREPARED FOR:

LANGAN

Phone: 203.562.5771 Fax: 203.789.6142

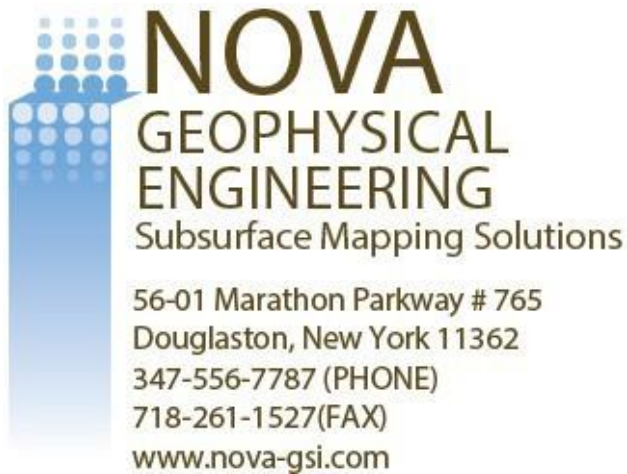
Long Wharf Maritime Center

555 Long Wharf Drive

New Haven, CT 06511-6107

www.langan.com

PREPARED BY:



NOVA GEOPHYSICAL SERVICES

SUBSURFACEMAPPINGSOLUTIONS

56-01 Marathon Parkway, # 765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.nova-gsi.com

June 15, 2017

Justin Hall
Senior Staff Scientist

Langan

Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Direct: 203.784.3049
Mobile: 413.433.3620

Re: Geophysical Engineering Survey (GES) Report
Commercial Site
163-05 Archer Avenue
Jamaica, New York 11433

Dear Mr. Hall:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: 163-05 Archer Avenue, Jamaica, New York 11433 (the "Site"). Please see attached Site Location and Survey Plan maps for more details.

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a Geophysical engineering surveys (GES) consisting of a Ground Penetrating Radar (GPR) survey at the site. The purpose of this survey is to locate and identify utilities and other substructures as well as clear boring locations on June 8th, 2017.

The equipment selected for this investigation was a Noggin 250 MHz ground penetrating radar (GPR) shielded antenna and 3M (EM) DYNATL.

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GEOPHYSICAL METHODS

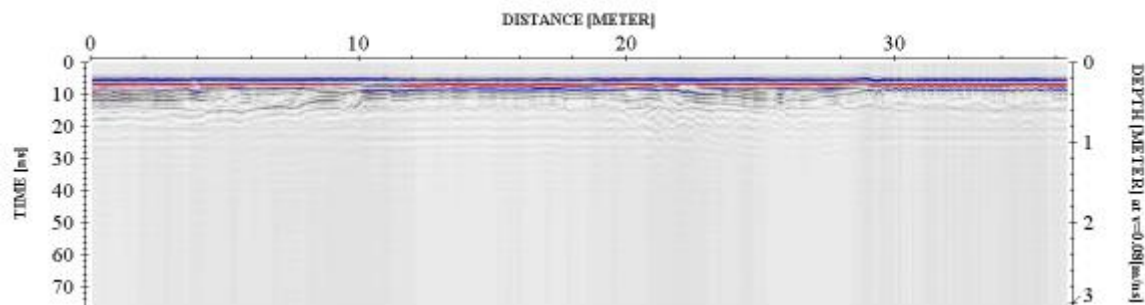
The project site was screened using the GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of concrete.

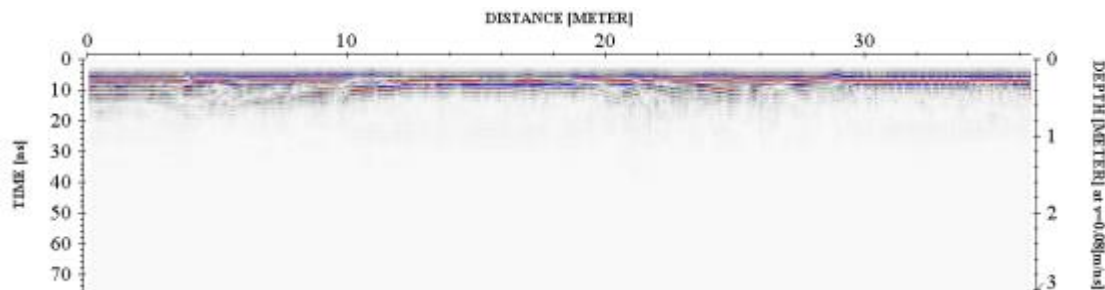
DATA PROCESSING

In order to improve the quality of the results and to better identify subsurface anomalies NOVA processed the collected data. The processes flow is briefly described in this section.

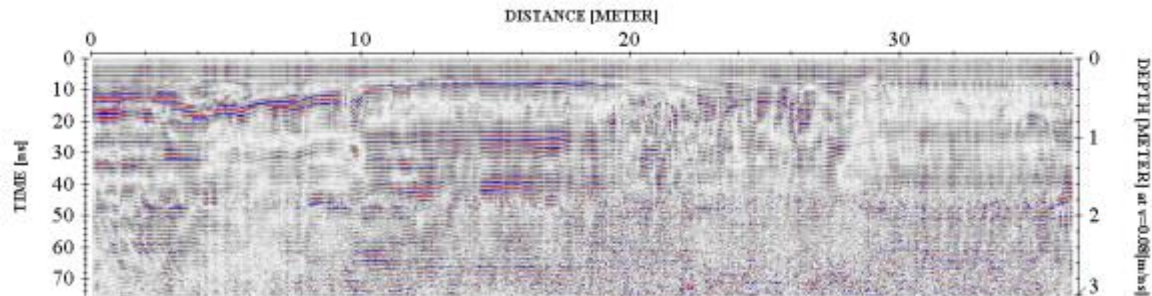
Step 1. Import raw RAMAC data to standard processing format



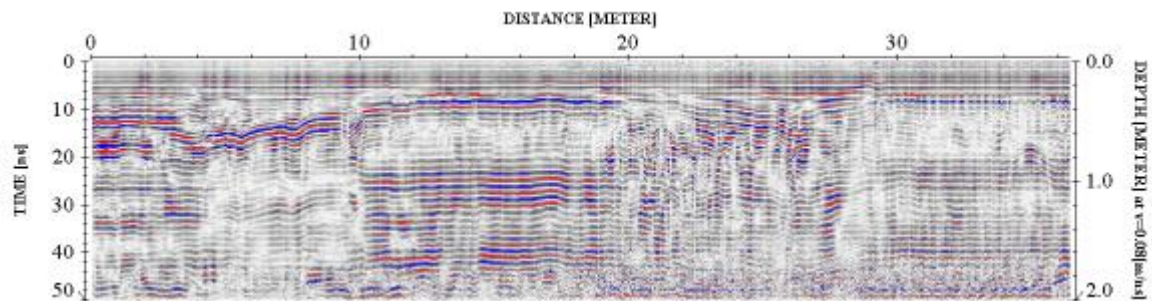
Step 2. Remove instrument noise (*dewow*)



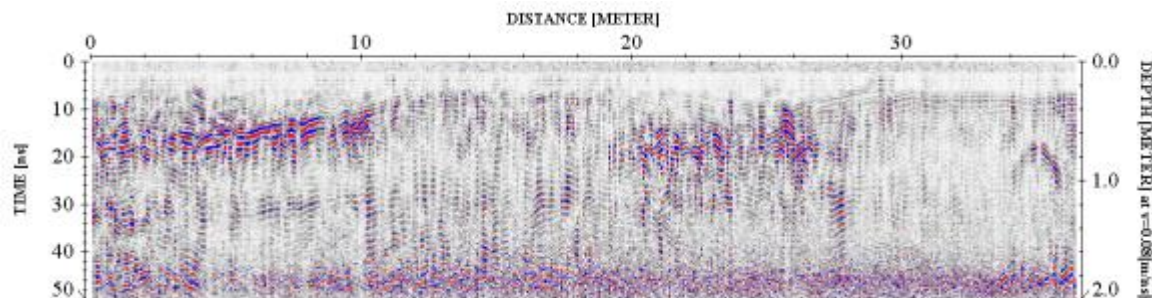
Step 3. Correct for attenuation losses (*energy decay function*)



Step 4. Remove static from bottom of profile (*time cut*)



Step 5. Mute horizontal ringing/noise (*subtracting average*)



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and describes the subsurface anomalies more accurately.

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

Weather: Sunny

Temperature: 60 Degrees (F)

Surface: Concrete

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was high at the site. The noise was a result of the site being located in an urban environment, the thick concrete slabs in the parking garage causing signal attenuation, and the proximity of above ground train lines.

RESULTS

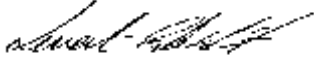
The results of the geophysical engineering survey (GES) identified following at the project Site:

- The GES identified an electrical, telecom, sewer, and two water lines entering the property from Archer Avenue.
- All cleared boreholes were marked in the onsite mark out and are depicted in the geophysical images.
- All detected subsurface anomalies were marked in the onsite mark out.
- The GES identified no anomalies resembling an Underground Storage Tank (UST) at the project site.
- The Survey Plan portrays the subsurface areas investigated during the GES.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services



Levent Eskicakit, P.G., E.P.

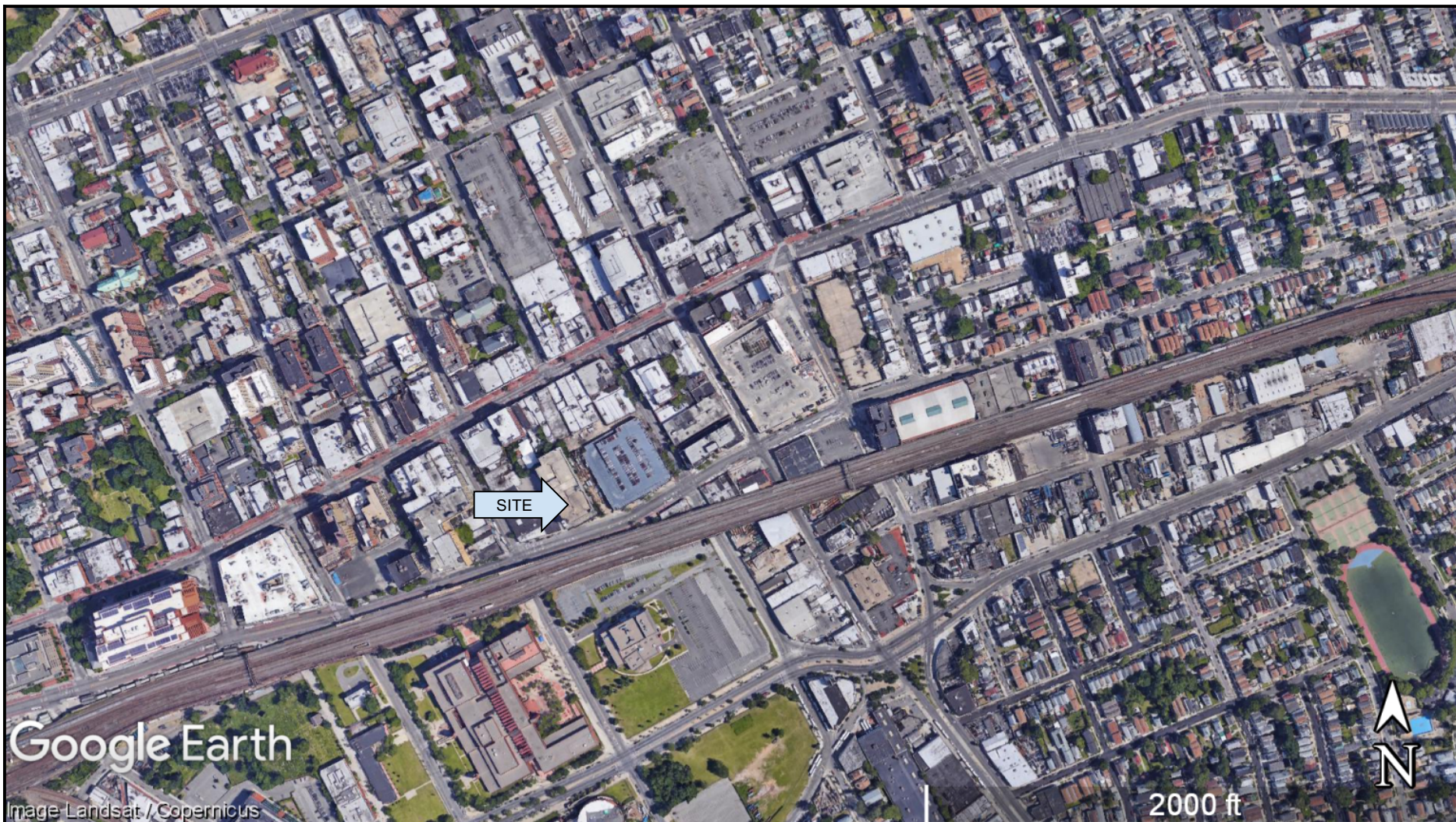
Project Engineer

Attachments:

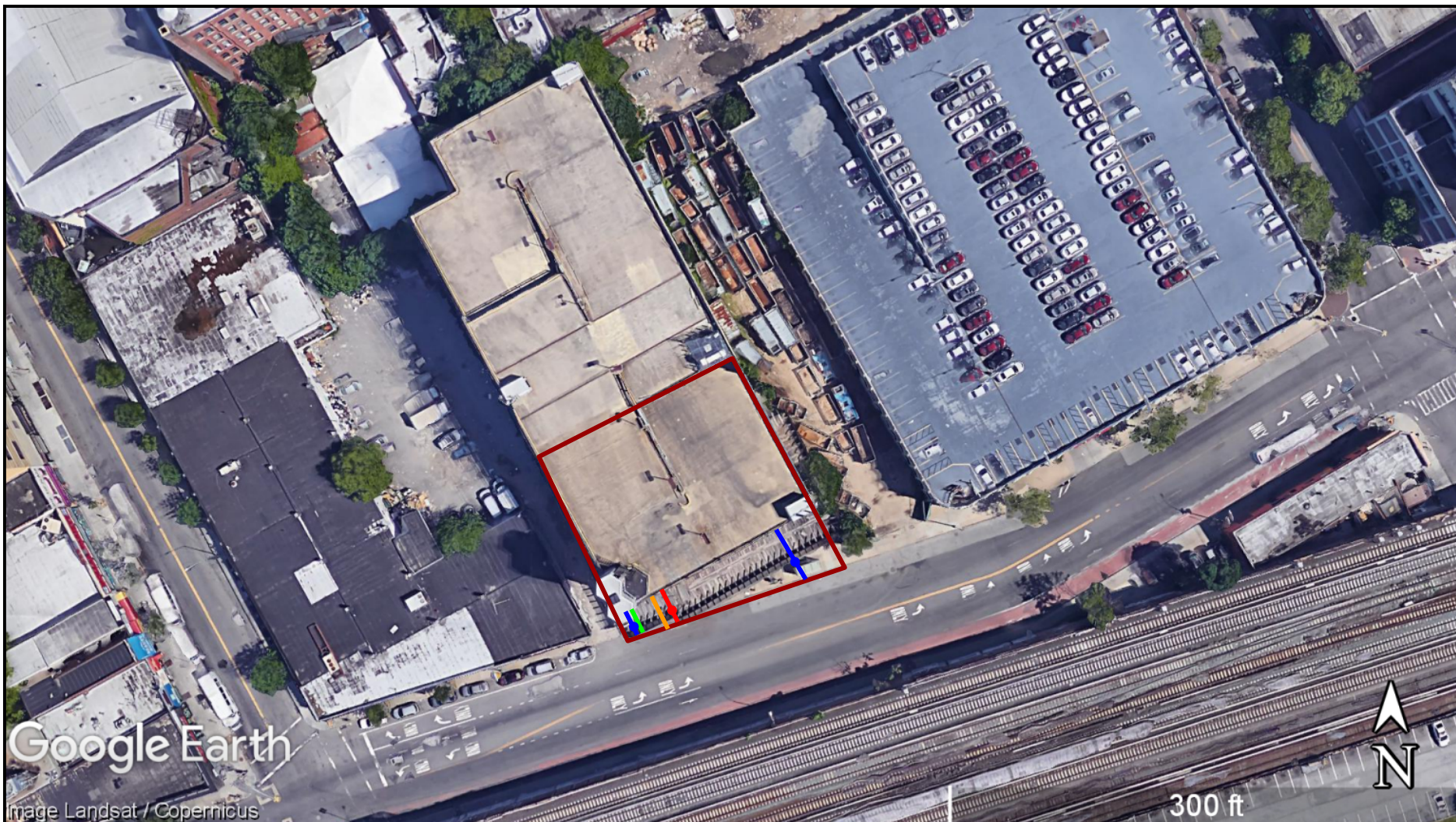
Site Location Map

Survey Plan

Geophysical Images



	SITE LOCATION MAP	LEGEND
 NOVA GEOPHYSICAL ENGINEERING Subsurface Mapping Solutions 56-01 Marathon Parkway # 765 Douglaston, New York 11362 347-556-7787 (PHONE) 718-261-1527(FAX) www.nova-gsi.com	SITE: Commercial Site 163-05 Archer Avenue Jamaica, New York 11433 CLIENT: Langan DATE: June 8, 2017 AUTH: Chris Steinley	



Google Earth

Image Landsat / Copernicus

NOVA
GEOPHYSICAL
ENGINEERING
 Subsurface Mapping Solutions
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 Douglaston, New York 11362
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SURVEY PLAN

SITE: **Commercial Site**
 163-05 Archer Avenue
 Jamaica, New York 11433

CLIENT: Langan

DATE: June 8, 2017

AUTH: Chris Steinley

LEGEND

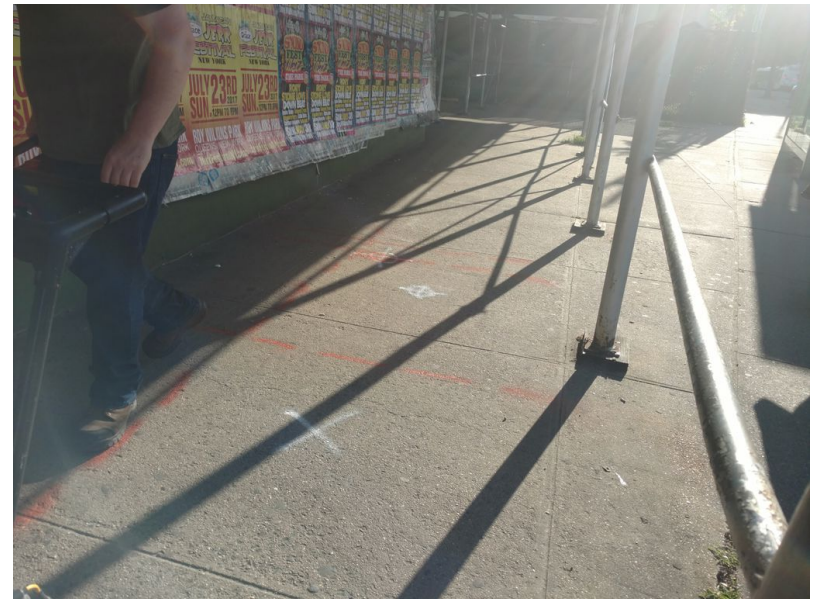
- Survey Area
- Water
- Gas
- Electric
- Sewer
- Telecom

GEOPHYSICAL IMAGES

Commercial Site

163-05 Archer Avenue
Jamaica, New York 11433

June 8, 2017



GEOPHYSICAL IMAGES

Commercial Site

163-05 Archer Avenue
Jamaica, New York 11433

June 8, 2017



GEOPHYSICAL IMAGES

Commercial Site

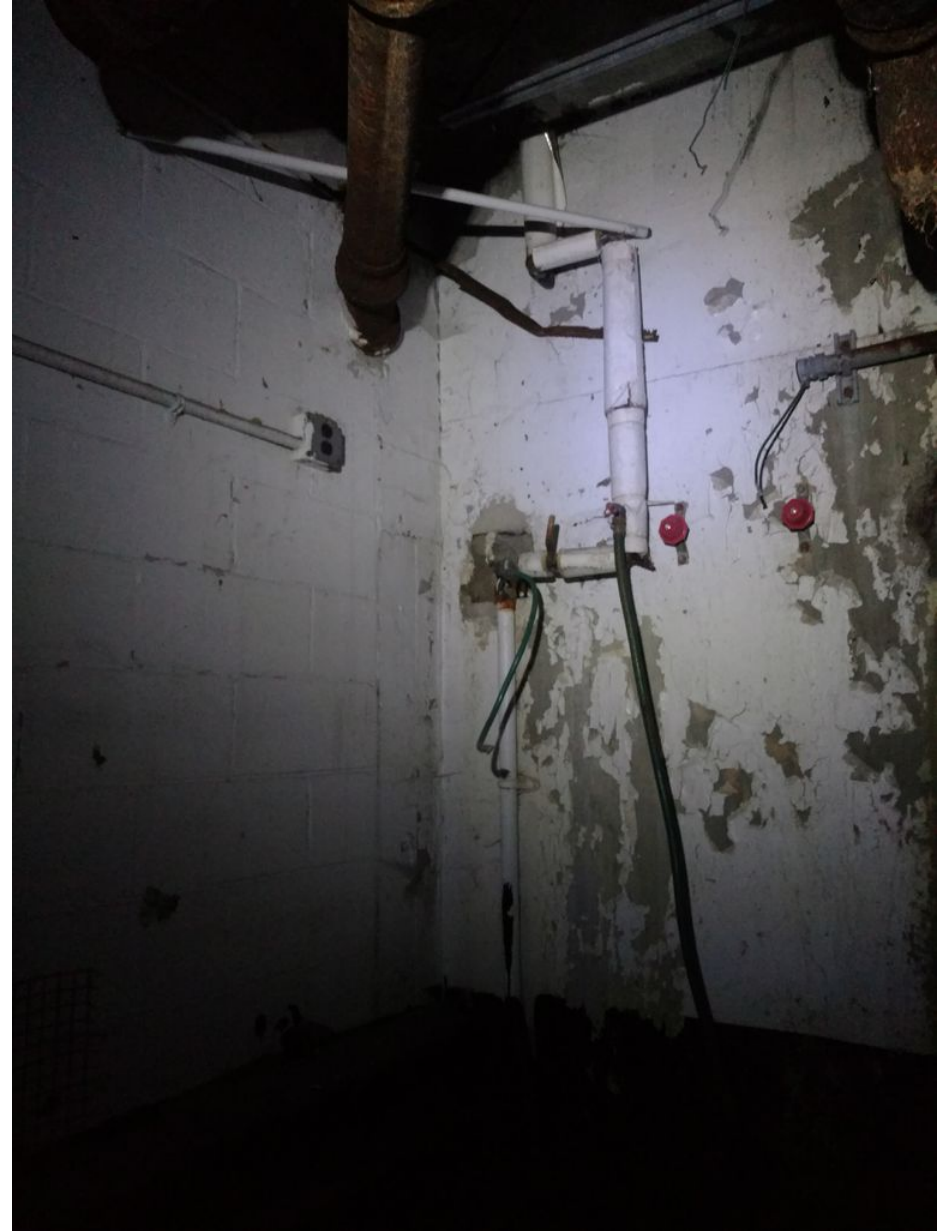
163-05 Archer Avenue
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June 8, 2017



GEOPHYSICAL IMAGES

Commercial Site

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